

# Best Available Copy

Atty. Docket No. 81862.P248

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	
	)	
Madhu Rao et al.	)	Examiner: Lin, Kelvin Y.
	)	
Application No.: 09/921,936	)	Art Unit: 2142
	)	
Filed: August 2, 2001	)	
	)	
For: NEIGHBOR DISCOVERY USING	)	
ADDRESS REGISTRATION	)	
PROTOCOL OVER ELMI	)	
	)	

Commissioner for Patents  
PO Box 1450  
Alexandria, Virginia 22313-1450

## DECLARATION OF PRIOR INVENTION IN THE UNITED STATES TO OVERCOME CITED PUBLICATION (37 C.F.R. §1.131)

Sir:

My name is Madhu Rao. I have been employed by Cisco Technology, Inc. of San Jose, California from May 25, 1999 through the present.

I am one of the inventors of the above-identified patent application that has been assigned to Cisco Technology, Inc. The declaration made herein is to establish a completion of the invention in the application in the United States at a date prior to December 6, 2000, which is the cited publication date of the paper entitled "Cisco Publication: Frame Relay ELMI Address Registration" by Cisco, posted on December 6, 2000 (the "Cisco Document").

I hereby declare that my invention was reduced to practice prior to December 6, 2000. Below stated are activities of myself and Cisco Technology, Inc. regarding the date on which the invention was reduced to practice.

My invention is embodied in a Cisco router product that implements the ELMI-AR protocol. Prior to December 6, 2000, I developed and tested a working version of the

product comprising my invention. Thus, my invention was reduced to practice prior to December 6, 2000.

Exhibit 1 attached herewith is a copy of screen images from debug sessions that capture the ELMi-AR protocol data in a running session that illustrates aspects of the invention embodied within the product. The dates in Exhibit 1 have been redacted. As evidenced by the screen image, the Cisco router product supporting the ELMi-AR protocol was completed and operational prior to December 6, 2000.

Based on the above description and as evidenced by the attached exhibit, the reduction to practice of the subject matter described in the present application was prior to the December 6, 2000 publication date of the Cisco Document.

As the below-signed invention, I, Madhu Rao, hereby declare that all statements herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements are made knowing that willful false statements and the like are punishable by fine or imprisonment, or both under §1001 of Title 18 of United States Code, and such willful or false statements may jeopardize the validity of the application or any patent issuing therefrom.

Respectfully submitted

Date: 11-22-2005



Signature

Full legal name: Madhu Rao

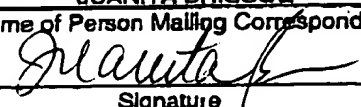
Citizenship: USA

Address: 1360 Tanaka Dr  
San Jose, CA 95131

**FIRST CLASS CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450.

on 11/28/05  
Date of Deposit

JUANITA BRISCOE  
Name of Person Mailing Correspondence  
  
Signature

11/28/05  
Date

# **EXHIBIT 1**

bot                      TN      Cisco                      IQX 8430 9.3.y4      [REDACTED]

	FrontCard	BackCard				FrontCard	BackCard			
	Type	Rev	Type	Rev	Status	Type	Rev	Type	Rev	Status
1	NPM	BTN			Standby	9	Empty			
2	NPM	EMS			Active	10	Empty			
3	Empty	universal	backplane			11	Empty			
4	UXM	BBE	T3	AA	Active	12	Empty			
5	UPMU	AD09	HSSI	AA	Standby	13	Empty			
6	UPMU	BD09	HSSI	AA	Active	14	Empty			
7	FRM	KT07	FRI-E1	AB	Mismatch	15	Empty			
8	UPM	ARN	E1D	AB	Active	16	Empty			

Last Command: dspcds

bot            TN    Cisco

IGX 8430 9.3.y4

Port Neighbor Discovery				
Port	Enable	State	IpAddress	IfIndex
5.1	Yes	ACTIVE	2.2.2.2	10
5.2	Yes	ACTIVE	0.0.0.0	0
5.3	No	INACTIVE	0.0.0.0	0
5.4	No	INACTIVE	0.0.0.0	0

Last Command: dspnebdisc

bot

TN Cisco

IGX 8430 9.3.y4

```
Port: 5.1 [ACTIVE ] Secondary
Interface: HSSI DCE Configured Clock: 1024 Kbps
Clocking: Normal Measured Rx Clock: 1024 Kbps
Neighbor IP Add: 2.2.2.2 Neighbor IfIndex: 10
Port ID 0 Min Flags / Frames 1
Port Queue Depth 65535 OAM Pkt Threshold 3 pkts
ECN Queue Threshold 65535 T391 Link Intg Timer 10 sec
DE Threshold 100 % N391 Full Status Poll 6 cyl
Signalling Protocol Cisco LMI -E EFCI Mapping Enabled No
Asynchronous Status No CLLM Enabled/Tx Timer No/ 0 msec
T392 Polling Verif Timer 15 IDE to DE Mapping Yes
N392 Error Threshold 3 Interface Control Template
N393 Monitored Events Count 4 Lead CA
Communicate Priority No State ON
Upper/Lower RNR Thresh 75%/ 25% Neighbor Discovery Enable
```

Last Command: dspport 5.1

bot                    TN      Cisco                    IGX 8430 9.3.y4      [REDACTED]

Port:	5.1	[ACTIVE ]	Secondary		
Interface:	HS8I	DCE		Configured Clock:	1024 Kbps
Clocking:	Normal			Measured Rx Clock:	1024 Kbps
Neighbor IP Add:	2.2.2.2			Neighbor IfIndex:	10
Port ID		0		Min Flags / Frames	1
Port Queue Depth		65535		OAM Pkt Threshold	3 pkts
ECN Queue Threshold		65535		T391 Link Intg Timer	10 sec
DE Threshold		100 %		N391 Full Status Poll	6 cyl
Signalling Protocol	Cisco LMI	-E		EFCI Mapping Enabled	No
Asynchronous Status		No		CLLM Enabled/Tx Timer	No/ 0 msec
T392 Polling Verif Timer		15		IDB to DB Mapping	Yes
N392 Error Threshold		3		Interface Control Template	
N393 Monitored Events Count		4		Lead	CA
Communicate Priority		No		State	ON
Upper/Lower RNR Thresh	75%/ 25%			Neighbor Discovery	Disable

Last Command: cnfport 5.1 DCE 1024 NORMAL 0 65535 65535 100 s N 15 3 4 N 75 25 3 N N Y 1  
N

elmi3600# show frame-relay qos-autosense

ELMI information for interface Hss11/0

IP Address used for Address Registration:2.2.2.2 My Ifindex:10 ELMI AR Status:Enabled  
Connected to switch:SWITCH Platform:IGX Vendor:CISCO

ELMI AR Status:Enabled

IP Address used by switch for address registration:192.0.0.0 Ifindex:5000000  
(Time elapsed since last update 00:14:09)



elmi3600# show frame-realy qos-autosense

ELMI information for interface Hss11/0

IP Address used for Address Registration:2.2.2.2 My Ifindex:10 ELMI AR Status:Enabled  
Connected to switch:SWITCH Platform:IGX Vendor:CISCO

ELMI AR Status:Enabled

IP Address used by switch for address registration:172.28.148.112 Ifindex:5000000  
(Time elapsed since last update 00:00:40)

elmi3600#show frame-relay qos-autosense

ELMI information for interface Hss11/0

IP Address used for Address Registration:2.2.2.2 My Ifindex:10 ELMI AR Status:Enabled  
Connected to switch:SWITCH Platform:IGX Vendor:CISCO

ELMI AR Status:Disabled

IP Address used by switch for address registration:0.0.0.0 Ifindex:0  
(Time elapsed since last update 00:01:46)

elmi3600# conf t

elmi3600(config)# interface serial or hssi 2/1

elmi3600(config-if) no frame-relay address-reg enable

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☒ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**